Claims Currently Pending in US Patent Application No. 09/464,099

- 100. An antibody immunoreactive with a 5-enolpyruvylshikimate-3-phosphate synthase enzyme, said enzyme comprising the sequence domains:
 - -R-X₁-H-X₂-E- (SEQ ID NO:37), in which

X₁ is G, S, T, C, Y, N, Q, D or E;

X₂ is S or T; and

-G-D-K-X₃- (SEQ ID NO:38), in which

X₃ is S or T; and

-S-A-Q-X₄-K- (SEQ ID NO:39), in which

X₄ is A, R, N, D, C, Q, E, G, H, I, L, K, M, F, P, S, T, W, Y or V; and

-N-X₅-T-R-(SEQ ID NO:40), in which

X₅ is A, R, N, D, C, Q, E, G, H, I, L, K, M, F, P, S, T, W, Y or V.

- 101. The antibody of claim 100, wherein X_1 is D or N; X_2 is S or T; X_3 is S or T; X_4 is V, I or L; and X_5 is P or Q.
- 102. The antibody of claim 100, wherein the enzyme comprises SEQ ID NO:3.
- 103. The antibody of claim 100, further defined as a polyclonal antibody.
- 104. The antibody of claim 100, further defined as a monoclonal antibody.
- 107. A kit for the detection of a 5-enolpyruvylshikimate-3-phosphate synthase enzyme in a sample, said kit comprising:

a container comprising an antibody immunoreactive with SEQ ID NO:3; and a detection agent.

